

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2004/018414

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61G5/02 B62K5/04 B62K21/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61G B62K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 028 064 A (JOHNSON JOHN W) 2 July 1991 (1991-07-02)	1, 4-6, 14-17, 23, 29-36
Y	the whole document	3, 7, 9, 10, 18-21, 27, 28, 45
X	GB 110 639 A (HOUGH JAMES FRANCIS) 1 November 1917 (1917-11-01)	1, 2, 11-13, 22, 32, 37, 39-44
Y	the whole document	45-48
X	WO 98/21081 A (RAKO PROD LTD ; RADMALL PAUL (GB)) 22 May 1998 (1998-05-22) claims; figures	1, 2
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

G document member of the same patent family

Date of the actual completion of the international search

26 October 2004

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02/11/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 48 353 C (HEINS) 8 March 1889 (1889-03-08) the whole document	1,52
Y	FR 2 657 318 A (LEPRETRE JOEL) 26 July 1991 (1991-07-26) claims; figures	3
Y A	US 5 297 810 A (LUKYANOV SERGEI N) 29 March 1994 (1994-03-29) claims; figures	7,18-21, 47,48 20
Y	US 4 572 535 A (LOFGREN MICHAEL S ET AL) 25 February 1986 (1986-02-25) column 3, line 6 - line 26; figures	9,10,46
Y A	DE 87 11 302 U (TRASKA) 19 May 1988 (1988-05-19) page 11, line 19 - page 12, line 7; figures	20,27,28 24-26

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PCT/US2004/018414

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5028064	A	02-07-1991	NONE	
GB 110639	A	01-11-1917	NONE	
WO 9821081	A	22-05-1998	AU 4875597 A WO 9821081 A1 GB 2319235 A	03-06-1998 22-05-1998 20-05-1998
DE 48353	C		NONE	
FR 2657318	A	26-07-1991	FR 2657318 A1	26-07-1991
US 5297810	A	29-03-1994	SU 1738282 A1 WO 9210156 A1 DE 69020363 D1 DE 69020363 T2 EP 0513355 A1	07-06-1992 25-06-1992 27-07-1995 02-11-1995 19-11-1992
US 4572535	A	25-02-1986	AU 5098485 A CA 1260035 A1 EP 0202301 A1 WO 8602897 A1	03-06-1986 26-09-1989 26-11-1986 22-05-1986
DE 8711302	U	19-05-1988	DE 8711302 U1	19-05-1988